

ABSTRACT

An object of the present invention is to provide a novel chromoprotein derived from *Cnidopus japonicus*. The present invention provides a chromoprotein derived from *Cnidopus japonicus* having the following properties:

- (1) the absorption maximum wavelength is 559 nm and the fluorescence maximum wavelength is of 578 nm;
- (2) the molar absorption coefficient is 61,150 at 559 nm;
- (3) the quantum yield is less than 0.01; and
- (4) the pH sensitivity of light-absorbing properties is stable at between pH 4 and pH 10.